

Abstract

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The invention relates to a method for producing electrochromic devices, in particular that having a large working surface area and which does not produce a volumetric shrinkage and can operate during a long maintenance of electrocoloured state of an electrochromic compound, high control voltages and polarity inversion. The inventive electrochromic device comprises at least two electrodes (1, 2), at least one of them being optically transparent. A closed sealed space is formed between said electrodes and filled with the electrochromic compound which is embodied in the form of a solid-like film. The inventive method for producing the electrochromic device consists in prefabricating an initial electrochromic compound in the form of a dispersed electrochromic system which contains at least a suspension and/or colloid. The dispersed medium of said system is embodied in the form of an electrochromic solution containing a liquid solvent, cathode and anode components, a disperse phase being embodied in the form of a finely dispersed polymer. Afterwards, the initial electrochromic compound is deaerated, thereby eliminating dissolved oxygen and air introduced by said finely dispersed polymer, and is used for filling the space between the electrodes.

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